

New England Hydropower - Archimedes Screw Generators

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The New England Hydropower Company, LLC (NEHC) develops, operates, owns and manages small-scale regional and local hydroelectric facilities. We provide the renewable energy market with a fresh, environmentally sound, fish and wildlife safe approach to small--scale hydroelectric generation.

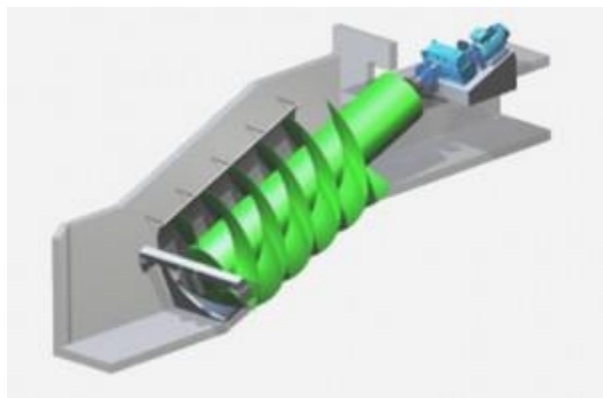
They move slowly. It isn't about speed, but mass and balance.

The Balance is between efficiency, fish and environmental protection

Screw generators extract the potential energy from large blocks of slowly downward moving water. The mass of the water turns the tilted screw. The flow of that mass is controlled by hydraulically driven sluice gates.

Water enters the screw at the top, and the significant weight of that water is lowered slowly down to a lower level of the waterway as the screw rotates. If they enter the turbine, fish are not damaged. There is plenty of space for large or small fish, debris and ice blocks to pass through the machine.

A gearbox at the top of the screw drives the a generator which produces standard three phase power for either the grid or direct users as state distribution laws allow. The entire facility is linked to an electronic monitoring and control system that runs automatically, but communicates to an operator whenever requested. Safety, shutdown and management protocols are strict and efficient.



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